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Dräger medical
A Dräger and Siemens Company

Field Service Procedure

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Innovian International Code Loader Installation Procedure

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1 INTRODUCTION

This document describes how to use the Innovian Code Loader application to prepare a coding system for use within Innovian.

2 REQUIREMENTS

Access to the Innovian server.
Source files for the coding system to load.

3 SETUP

3.1 Prepare

3.1.1 Terminology Files

A coding system is loaded from one or more text files that either come from the provider or are prepared by Draeger Medical. Appendix A details the coding systems that the loader is able to load in provider format. Appendix B details the generic format required to load other coding systems.

3.1.2 Installation

1. Load the Loader application files into a folder on the server. [e.g. “D:\Innovian\Code Loader”]
2. Ensure that the coding system files are accessible. [e.g. the CD is on-line]
3. *** * * IMPORTANT * * *** If the **server** is listed in the LocalConfiguration table of the Innovian database, then the WorkstationName field for that entry must be set to an invalid value while the Loader is being run, and then restored when finished. One easy way to do this is to edit the row in Enterprise Manager, and put an ‘x’ in front of the server name [if that’s an invalid machine name], and then remove it when finished.

3.2 Configure

Configuration options that appear in the Loader application may be set when the application is run. However, these are not retained and must be re-entered each time. To make the options persistent, edit their values in the following configuration files.

3.2.1 Innovian Database

The Innovian database and server names are specified in the “Innovian_Code_Loader.exe.config” file by the tags <configuration>\<Innovian_Code_Loader>\<InnovianDB add key="Catalog"> and <configuration>\<Innovian_Code_Loader>\<InnovianDB add key="ServerName">. Enter the name of the each as the “value=” property.

Example:

```
<configuration>
   <configSections>
      . . .
   </configSections>
   <Innovian_Code_Loader>
      <Loader>
            . . .
      </Loader>
      <InnovianDB>
            . . .
            <add key="Catalog" value="PerioPDM" />
            <add key="ServerName" value="InnoSrv" />
      </InnovianDB>
   </Innovian_Code_Loader>
</configuration>
```

Note that these **must** be set when the Loader is run. The database name must be set here, and the server name may be set either here or on the screen.

3.2.2 Terminology

The terminology options are specified in the "Innovian_Code_Importer_<terminology>_config.xml" file.
[e.g. "Innovian_Code_Importer_ICD9CM_config.xml"]

Source path: The key for the source path is <configuration>\<System>\<Path>\<From>. This is the path to the terminology files. [e.g. "E:\", the CD or DVD drive]

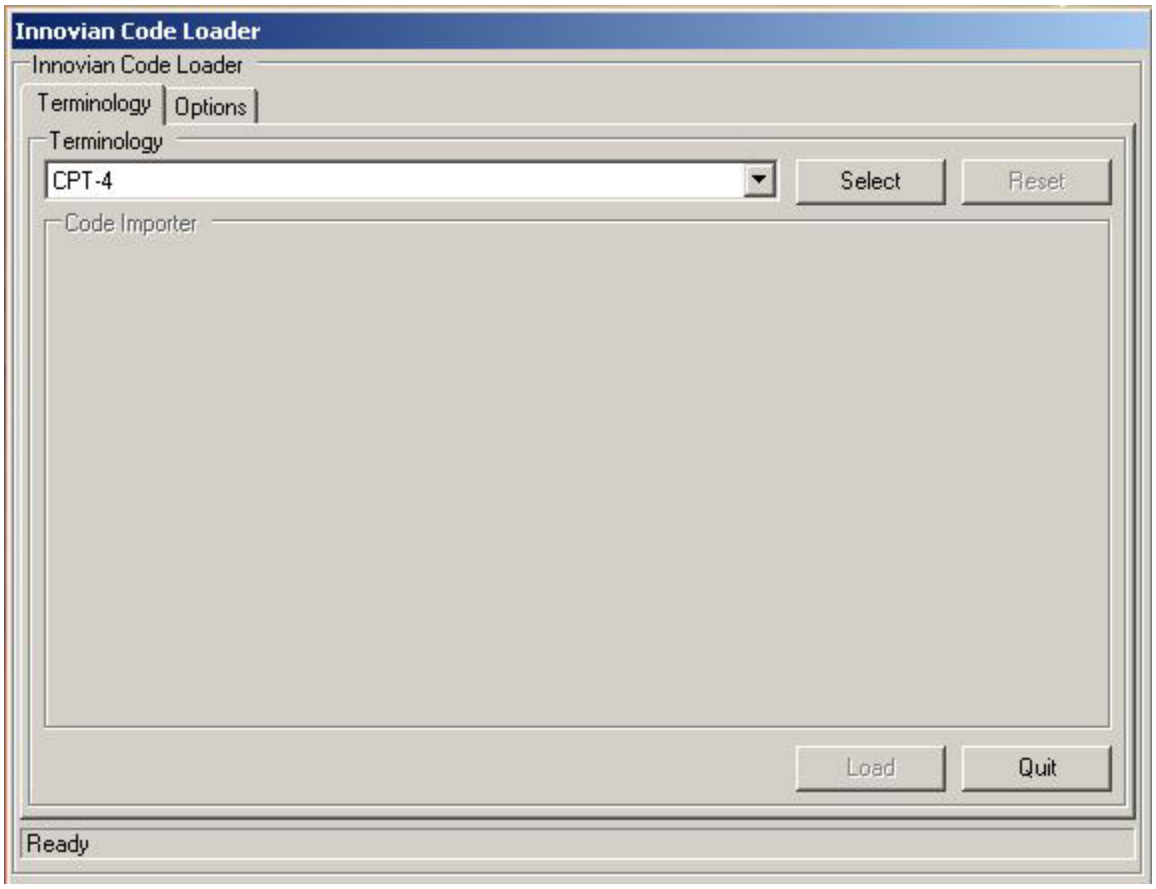
Target path: The key for the target path is <configuration>\<System>\<Path>\<To>. This is the path to the folder where the terminology DB will be created, and will typically be located where the Innovian DBs reside.
[e.g. "D:\Innovian\Terminology Databases"]
This must be an existing folder – it will <u>not</u> be created. Note that if it does not exist, it will not appear on the screen, as shown in 4.2. Rather, the target path will default to the application folder.

Example:

```
<configuration>
   <System>
      . . .
      <Path>
            <From>E:</From>
            <To>D:\Innovian\Terminology Databases</To>
      </Path>
   </System>
   . . .
</configuration>
```

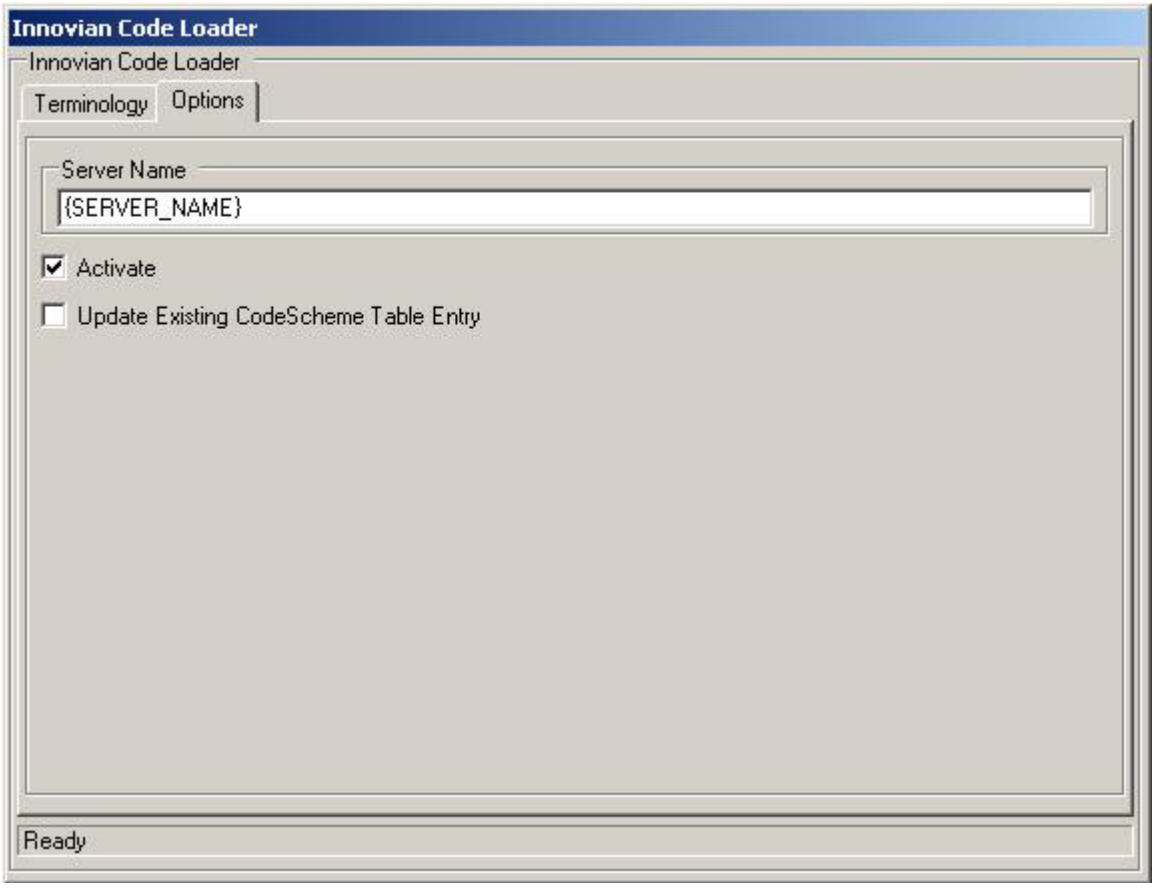
4 RUN

Launch the Innovian_Code_Loader.exe application.



*** * * IMPORTANT * * *** If the **server** is listed in the LocalConfiguration table of the Innovian database, then the WorkstationName field for that entry must be set to an invalid value while the Loader is being run, and then restored when finished. One easy way to do this is to edit the row in Enterprise Manager, and put an 'x' in front of the server name [if that's an invalid machine name], and then remove it when finished.

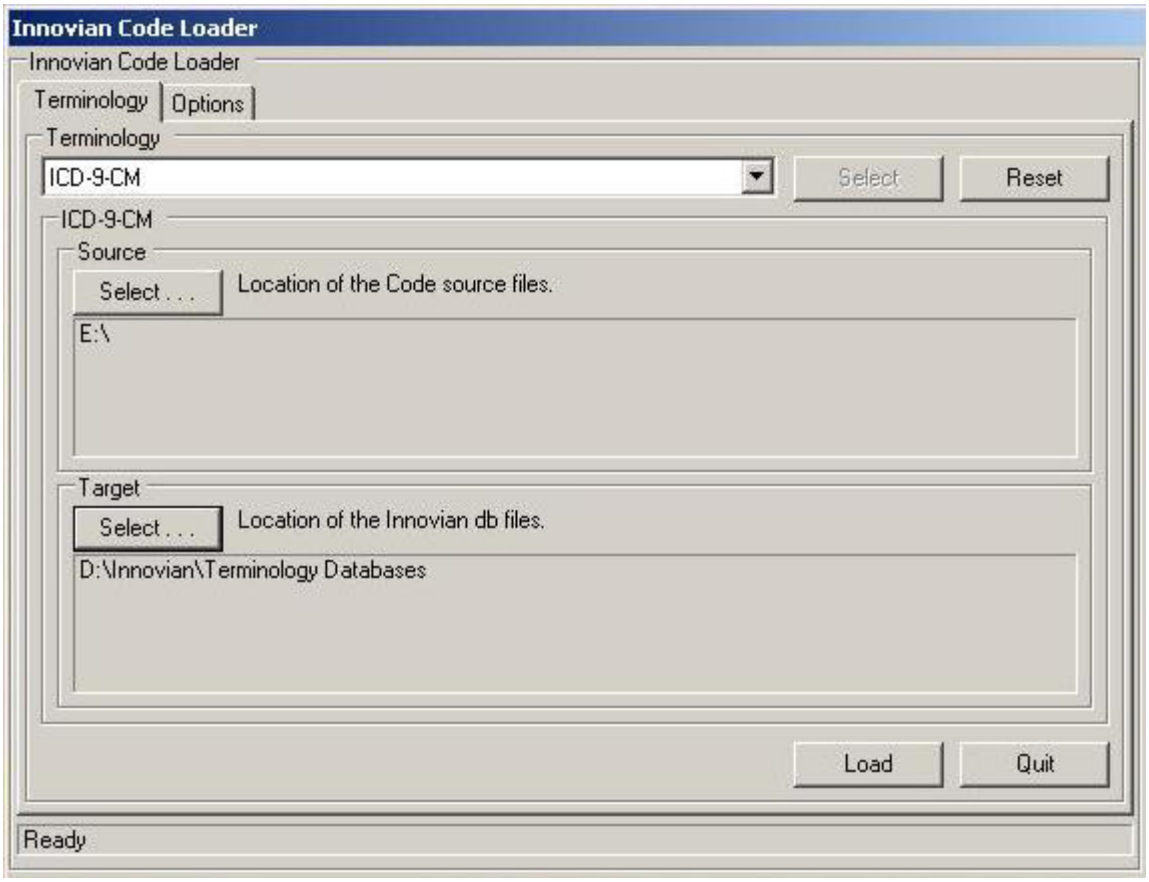
4.1 Verify Options



1. Select the ‘Options’ tab.
2. Ensure that the server name is correct. [must **not** be ‘(local)’]
3. Check ‘Active’ to make the new coding system active after import.
4. Check ‘Update Existing CodeScheme Table Entry’ to restore the defaults for a coding system that was previously loaded. The entries in this table instruct Innovian how to access each coding system. Ordinarily, the default settings will be correct, but there may have been a need to manually adjust them after the coding system was loaded. For this reason, the loader only restores the default settings for an existing entry if this option is checked.

   Check this option only if the coding system was previously loaded, and the Innovian settings need to be updated with the current defaults.

4.2 Import Codes



1. Select the ‘Terminology' tab.
2. Select the coding system to be loaded, from the list in the ‘Terminology’ drop-down, and click ‘Select’.
3. Ensure that the desired path is set for both ‘Source’ and ‘Target’. Click ‘Select’ to set a different path.
4. Click ‘Load’ to import the coding system.
5. If prompted with a disclaimer, ensure that the end-user reads and understands their responsibilities as outlined. Click ‘Yes’ to proceed, after ensuring customer acceptance of the conditions for use.
6. Repeat for each coding system to import.
7. Click ‘Quit’ when finished.

5 COMPLETE

1. Review each of the “Log_<machine>_<db>.log” files to ensure that distribution was successful.
2. To distribute to a single workstation at a later time, run the BAT file “bat_Innovian_Code_dtsRun.bat” from the command line. Supply the workstation name, database name, and database path as parameters, in that order. See the file “bat__test_Innovian_Code_dtsRun.bat” for an example.

APPENDIX A. PROVIDER-SUPPLIED TERMINOLOGY

The following coding systems may be loaded in their provider-supplied format.

Terminology	***Files***
CPT-4 2004 (US English)	LONGU.txt MEDU.TXT
ICD-9-CM 2004 (US English)	AMAICD04F.txt
OPS-301 2004 (German)	op301.asc
ICD-10-CM 2004 (German)	kap01.asc through kap22.asc
SKS-BKU 2004 (Danish)	b.txt k.txt u.txt
SKS-D 2004 (Danish)	d.txt

APPENDIX B. GENERIC-FORMAT TERMINOLOGY

Terminology Files

Coding systems not listed in Appendix A may be loaded in the generic format detailed below.

1. Each file contains plain text and must have the extension “tab”.
2. Each row contains one coded item.
3. The fields within a row are separated by one tab character.
4. The first field identifies the remaining set of fields for each item, as follows.
   C – a comment row that is ignored.
   T – an individual term containing the following fields.
   1. a whole number indicating the level of the term in the coding hierarchy. Terms at the highest level are typically numbered 0 or 1. Terms contained within a level are then incremented by one.
   2. the code for the term.
   3. size of the term description, as follows.
      T – use for all descriptions
      L – full description only
      M – brief description only
   4. description of the term.

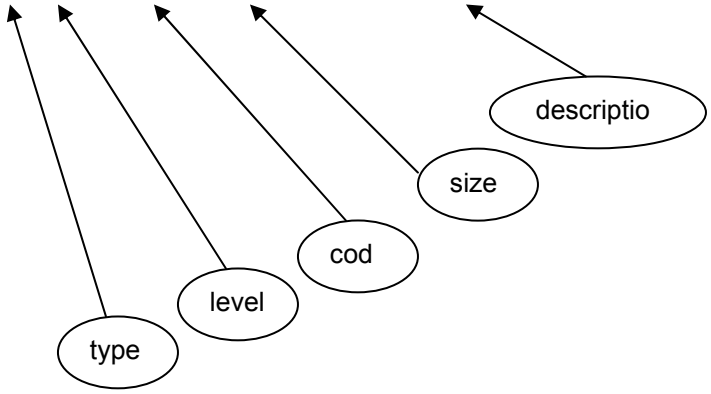
   All other rows are ignored.

The following generic-format coding systems are already configured for the loader.
OPCS-4 2004 (UK English)
ICD-10-NHS 2004 (UK English)
INAMI 2004 (Belgian French)
COTG 2004 (Dutch)

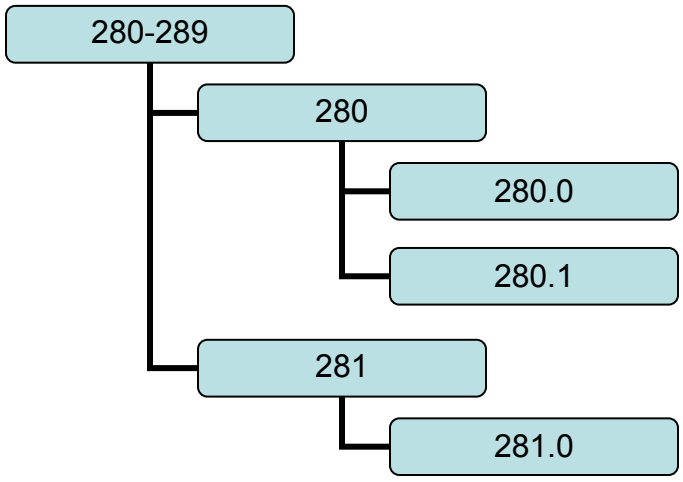
The configuration file for each generic-format coding system, **including those listed above**, must be modified to indicate the names of the actual source files to be loaded, as described in Appendix C.

Example:

```
C  This is a sample generic format file
T  0  280-289  T  Diseases of the blood and blood-forming organs
T  1  280      T  Iron deficiency anaemias
T  2  280.0    T  Secondary to blood loss (chronic)
T  2  280.1    L  Secondary to inadequate dietary iron intake
T  2  280.1    M  Secndry inadqt dtry iron intk
T  1  281      T  Other deficiency anaemias
T  2  281.0    T  Pernicious anaemia
```



This is the tabular representation of the following hierarchy:



The file ICD_9_CM_2003_UK_06.tab is provided in the code loader application folder as a more complete example.

APPENDIX C. CONFIGURATION FILES

The code loader uses these xml configuration files.

Application Configuration

The application configuration file Innovian_Code_Loader.exe.config is located in the code loader application folder.

The following xml tags configure the code loader application, and specify the set of coding systems that may be loaded.

<configSections> defines the remaining segments.

<sectionGroup> defines an individual segment.

<section> defines each portion of a segment.

<Innovian_Code_Loader> is the <sectionGroup> for the code loader.

<Loader> lists the supported coding systems.

<InnovianDB> specifies the Innovian database, as described in 3.2.1.

There is one <sectionGroup> for each supported coding system, containing one <WizardSpec> segment that configures the terminology-specific importer.

To add a new generic-format terminology to the loader list, add a new <sectionGroup> for that coding system to the application configuration file, following the pattern of the other coding systems. A generic-format coding system uses the Term_Import__generic importer type.

In the following example, the text in **bold** shows the entries to add for a new coding system. The text that is {enclosed by braces} must be customized for the coding system. Note that the braces are only for demonstration and must not be used in the actual file.

```
<configuration>
   <configSections>
      . . .
      <sectionGroup name="{XYZ-2004-Esperanto}">
         <section
            name="WizardSpec"
            type="System.Configuration.NameValueSectionHandler"
         />
      </sectionGroup>
   </configSections>
   <Innovian_Code_Loader>
      <Loader>
         . . .
         <add key="32" value="ABC-2004-Gibberish}" />
         <add key="{33}" value="{XYZ-2004-Esperanto}" /> * see note below
      </Loader>
      . . .
   </Innovian_Code_Loader>
   . . .
   <{XYZ-2004-Esperanto}>
      <WizardSpec>
         <add key="WizardName" value="{XYZ 2004 (Esperanto)}" />
         <add key="LoaderPath" value="" />
         <add key="LoaderType" value="Code_Importer__default" />
         <add key="LoaderAssembly" value="Innovian_Code_Importer" />
         <add key="ImporterPath" value="" />
         <add key="ImporterType" value="Term_Import__generic" />
         <add key="ImporterAssembly" value="Innovian_Code_Importer__generic" />
         <add key="Configuration" value="{Innovian_Code_Importer_XYZ_config.xml}" />
      </WizardSpec>
   </{XYZ-2004-Esperanto}>
</configuration>

* for the “key=” entry, use the next available value, as illustrated.
```

Terminology Configuration

Each coding system also has its own configuration file that also resides in the code loader application folder. The files distributed with the application should not need modification, except as described in 3.2.2.

While any one coding system may have some custom tags, the following set used in the <System> segment is common to all.

<TermType> is either Procedure or Diagnosis.

<Disclaimer> may be used to specify the name of a text file containing a disclaimer. This text will be displayed as it appears in the file and must be accepted in order to load the coding system. The path to the file may be specified, relative to the code loader application folder.

<Language>, <Name>, <DescriptionShort>, and <DescriptionLong> are as their name implies.

<Version> represents the version of the coding system, typically either a number or year.

The <Terms> section provides details to the terminology-specific importer, and should not need modification. For a generic-format coding system, this section contains only a list of <Term> tags, each containing the name of a file containing a set of terms. Any system can thus be partitioned into one or more files.

To add a generic-format terminology, create a new configuration file following the pattern of the other generic-format coding systems.

Example: Innovian_Code_Importer_XYZ_config.xml

```
<?xml version="1.0" encoding="utf-8"?>
<Configuration>
   <System>
      <TermType>Procedure</TermType>
      <Language>Esperanto</Language>
      <Name>XYZ</Name>
      <Version>2004</Version>
      <DescriptionShort>XYZ for Esperanto, 2004</DescriptionShort>
      <DescriptionLong>
         XYZ for Esperanto, 2004; example of a terminology
      </DescriptionLong>
      <Path>
         <From>E:</From>
         <To>D:\Innovian\Terminology Databases</To>
      </Path>
   </System>
   <Terms>
      <Term>XYZ_2004_00.tab</Term>
      <Term>XYZ_2004_01.tab</Term>
      <Term>XYZ_2004_02.tab</Term>
   </Terms>
</Configuration>
```

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